WORKSITE PLAN EXERCISE & BUFFER ZONE SCENARIOS

January 4, 2001

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WORKSITE PLAN EXERCISE

Happy Go Lucky Farms Scenario

Mr. Dragon is a large grower in your county, he is the owner of Happy Go Lucky Farms. **He** comes in with his **Worksite** Plans five (5) days before he wants to fumigate **3** of his sites. Those sites **are Happy Site 1, Lucky Site 2** and part of his **Pretty Greenhouse. Mr.** Dragon is the certified applicator/private applicator, and he would like to give you a **NOI** for all his sites today.

Happy Site 1: Is a forty-five-- (45) acre block. Mr. Dragon wants to do the Tarpaulin /Shallow/Bed Method. He wants to use 250 lbs. of methyl bromide per acre. Mr. Dragon tells you that he will be the responsible person for any tarp repairs on all the sites, and that this year he bought a SCBA for his employees to use **incase** of an emergency and has trained them **on** how to use it. Mr. Dragon has brought in maps of the sites, and since you have been working so long for the county, you are familiar with the sites that he wants to fumigate.

You figure out the buffer zones for **Happy Site 1** and you realize there is a horse barn with stalls/arena with horses in them on the north side of the site. You are also made aware that on top of the barn there is a living quarters, where someone currently lives. You ask Mr. Dragon what he's is going to do about the person living in the ban and if there will be any **traffic** going in and out of the barn during the fumigation to get horses in and out of their stalls.

Also by looking at the maps you notice that there are three very large houses 270 feet outside of the perimeter of the outer buffer zone. And you believe some kind of Notification in writing is required with some information, to the owners of those houses. You remind Mr. Dragon that Notification in writing is required by your commissioner.

Lucky Site 2: Is a thirty-five-- (35) acre block, Mr. Dragon wants to use Drip System-Hot Gas at 250 Ibs. per acre. After figuring out the outer buffer zones you notice on the maps that there is a shed with a fenced in yard north of the site. Where the workers for Mr. Dragon come and get equipment and sometimes stay and have lunch. On the west side of the property about 350

feet from the perimeter of the outer buffer zone is a convalescent hospital and some houses. Is there some kind of notification required?

Pretty Greenhouse: Mr. Dragon also tells you that since he is in the office doing site plans for his other two sites. He might as well put in a site plan for his Greenhouse site. He was thinking of doing the Tarpaulin/Shallow/Bed method, and he wanted **to** use 200 lbs. of Methyl Bromide. The entire greenhouse is about fifteen (15) acres.

METHYL BROMIDE FIELD FUMIGATION – WORKSITE PLAN

Happy Site 1

Property Operator: **Happy Go Lucky Farms**
Address: **3333 Round About Lane**
Phone: (393) **570-1277**
Permit Number:
Contact Person: **Steve Dragon**
Fumigation Site Location: Happy **Site 1**
Pest Control Business: **None**
Address:
Phone:
Contact Person:

Buffer Zone

Methyl Bromide Product: **Methyl Bromide 67/33**
Application Rate: 250 lbs./acre
Number of Acres: 45
Application Method: **6450.3(a)(4) Tarpaulin/Shallow/Bed**
Type of **Tarpaulin: Armin HBA**
Earliest Date of Fumigation: **2/14/2001**
Latest Date of Fumigation: **2/15/2001**
Description of Activities/Within Buffer Zones: **Employees on tractors driving by to get to other sites, people getting horses and riding in arena.**
Map showing: Field Location, Field Dimensions, Housing, Sensitive Sites: **See attached**

Notification to Nearby Properties

Method of Notification: **None**
Copy of Notification:
Date(s) of Notification: **Tell them the day before application**
Map showing properties notified: **See attached**

Tarpaulin Repair Plan

Person Responsible: **Steve Dragon**
Certification: **Private Applicator #0013**
Schedule for Checking Tarpaulins: **8:OOam – 5:00pm**
Minimum Distance(s) from Sensitive Sites that Tarps will be repaired: **300ft**
Minimum Time following Injection that Tarps will be repaired: 4 **days**
Minimum Size of Damage that will be repaired: 6 inches
Type of Testing Device used to Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **My new SCBA**

Tarpaulin Removal Plan

Person Responsible: **Steve Dragon, Happy Go Lucky Farms**
Equipment Used to Cut Tarps:
Schedule for Tarp Cutting:
Schedule for Tarp Removal:

METHYL BROMIDE FIELD FUMIGATION – WORKSITE PLAN

Lucky Site 2

Property Operator: **Happy Go Lucky Farms**
Address: **3333 Round About Lane**
Phone: (393) 5704277
Permit Number: **99-03456-5051**
Contact Person: **Steve Dragon**
Fumigation Site Location: **Lucky Site 2**
Pest Control Business: None
Address:
Phone:
Contact Person:

Buffer Zone .

Methyl Bromide Product: **Methyl Bromide 67/33**
Application Rate: 250 **lbs./acre**
Number of Acres: 35
Application Method: **6450.3(a)(6) Drip System Hot Gas**
Type of **Tarpaulin: Armin HBA**
Earliest Date of Fumigation: **2/15/2001**
Latest Date of Fumigation: **2/17/2001**
Description of Activities/Within Buffer Zones: **Employees driving tractors in and out of fenced yard, employees sitting at tables eating lunch.**
Map showing: Field Location, Field Dimensions, Housing, Sensitive Sites: **See attached**

Notification to Nearby Properties

Method of Notification: None
Copy of Notification: **None**
Date(s) of Notification: **Tell them the day before application.**
Map showing properties notified: **See attached**

Tarpaulin Repair Plan

Person Responsible: **Steve Dragon**
Certification: **Private Applicator #0013**
Schedule for Checking Tarpaulins: **8:00am – 5:00pm**
Minimum Distance(s) from Sensitive Sites that Tarps will be repaired: **300ft**
Minimum Time following Injection that Tarps will be repaired: 4 **days**
Minimum Size of Damage that will be repaired: 6 inches
Type of Testing Device used to Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **My new SCBA**

Tarpaulin Removal Plan

Person Responsible: **Steve Dragon, Happy Go Lucky Farms**
Equipment Used to Cut Tarps: **ATV**
Schedule for Tarp Cutting: 5 **days after fumigation**
Schedule for Tarp Removal: 6 **days after fumigation**

METHYL BROMIDE FIELD FUMIGATION – WORKSITE PLAN

Pretty Greenhouse Site 3

Property Operator: **Happy Go Lucky Farms**
Address: **3333 Round About Lane**
Phone: (393) **570-1277**
Permit Number: **99-03456-5052**
Contact Person: Steve **Dragon**
Fumigation Site Location: **Pretty Greenhouse Site 3**
Pest Control Business: **None**
Address:
Phone:
Contact Person:

Buffer Zone

Methyl Bromide Product: **Methyl Bromide 67/33**
Application Rate: **200 lbs./acre**
Number of Acres: **15**
Application Method: **6450.3(a)(4) Tarpaulin Shallow Bed**
Type of Tarpaulin: **Armin HBA**
Earliest Date of **Fumigation: 2/16/2001**
Latest Date of Fumigation: 2/17/2001
Description of Activities/Within Buffer Zones: **Crew planting and loading plants**
Map showing: Field Location, Field Dimensions, Housing, Sensitive Sites: **See attached**

Notification to Nearby Properties

Method of Notification: **None**
Copy of Notification: **None**
Date(s) of Notification: **Tell them the day before application**
Map showing properties notified: **See attached**

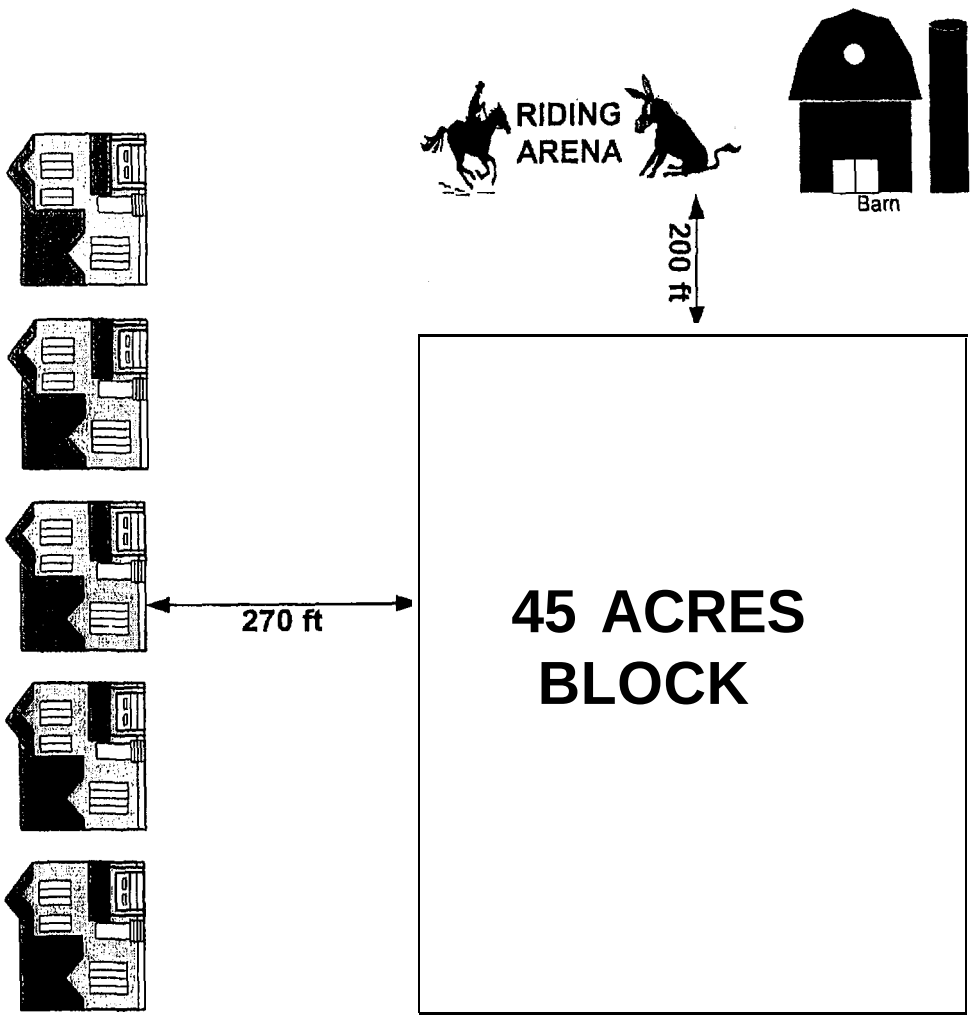
Tarpaulin Repair Plan

Person Responsible: **Steve Dragon**
Certification: **Private Applicator #0013**
Schedule for Checking Tarpaulins: **8:OOam – 5:00pm**
Minimum Distance(s) from Sensitive Sites that Tarps will be repaired: 300 feet
Minimum **Time** following Injection that Tarps will be repaired: 4 **days**
Minimum Size of Damage that will be repaired: 6 **inches**
Type of Testing Device **used** to Measure Air Concentrations: **Drager**
Type of Respiratory **Protection: My** new **SCBA**

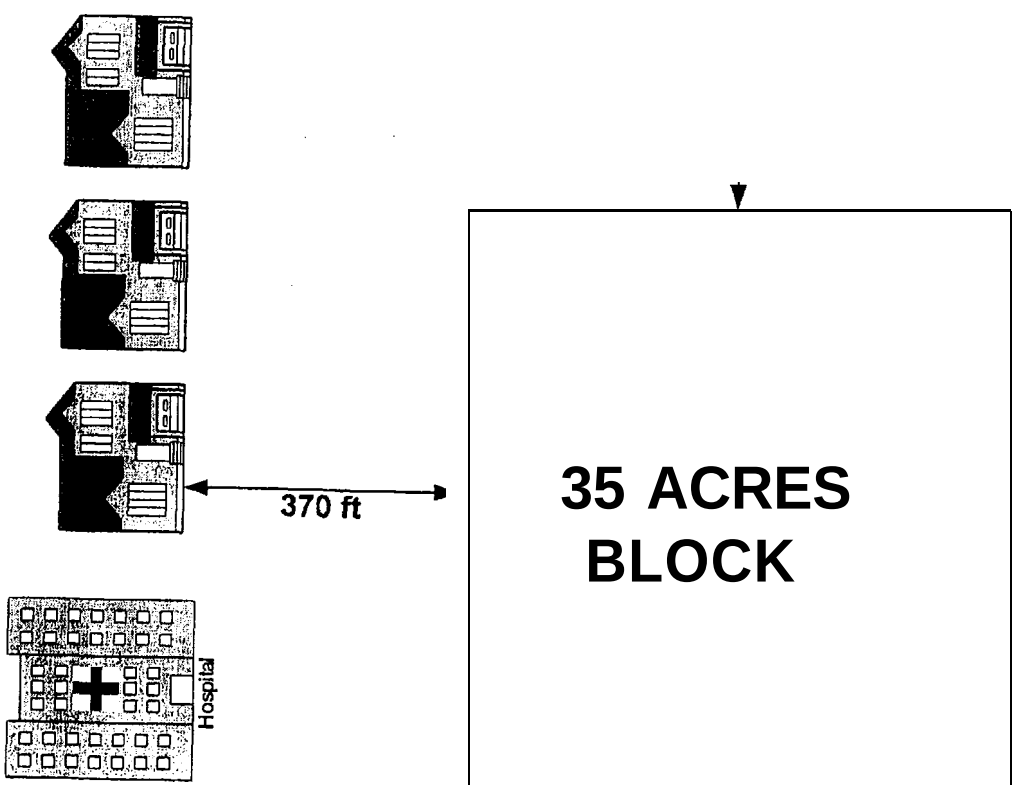
Tarpaulin Removal Plan

Person Responsible: **Steve Dragon, Happy Go Lucky Farms**
Equipment Used to Cut Tarps: **ATV**
Schedule for Tarp Cutting: **5 days after fumigation**
Schedule for Tarp Removal:

HAPPY GO LUCKY
FARMS
"HAPPY SITE 1"



HAPPY GO LUCKY
FARMS
“HAPPY SITE 2”



BUFFER ZONE SCENARIOS

Methyl Bromide Field Fumigation

Saveria Vineyard Scenario

Specializing in Soil Fumigation

TRI CAL INC

P.O. BOX 1327
HOLLISTER, CA 95024

INVOICE NUMBER _____

1029 RAILROAD STREET
CORONA, CA 91720

NOTICE OF INTENT TO APPLY RESTRICTED MATERIALS AND/OR PEST CONTROL RECOMMENDATION

WORK ORDER NO.

County Santa Cruz
Address
County No. 44
Permitee: Saveria Vineyard
Address: 1400 Sun Mountain Rd
Felton, Calif 95018
Environmental Chanaes:
-NONE-

Permit No. 44-01-4428OA
Date of Application 9-5-00
Crop Wine Grapes

Sec.	Twn.	Rng.	Map ID
3	11S	01E	17

Location to be treated: 1A
Haver Apple Way
Pests: (Weed seeds, Nematodes, Soil fungus)
No. of days before planting: 14
Method: Ground application
11

I CERTIFY THAT I HAVE CONSIDERED ALTERNATIVES AND MITIGATION MEASURES THAT WOULD SUBSTANTIALLY LESSEN ANY SIGNIFICANT IMPACT ON THE ENVIRONMENT, AND HAVE ADOPTED THOSE FOUND FEASIBLE.

(✓) Fumigant To Be Used		lbs/acre	acres
( ) Tri-Brom	11220-16		
( ) Tri-Con 80/20	58266-01-11220		
( ) Tri-Con 75/25	11220-08		
( ) Tri-Con 67/33	11220-07		
( ) Tri-Con 57/43	11220-04		
( ) M.B. 99.95	8536-12-11220		
( ) M.B. 98%	8536-19-11220		
(✓) Other	1783 33	350	10

6:00 AM Start
See attached map
TREATMENT AREA
WB2-30'
RB2-200'

Days before harvest: N/A
Worker Re-eniry: N/A 6 day restricted
Posting Req. ☑ Yes ☐ No
Reason(s) for Recommendation: For the prevention of suspected pathogens in the soil.

Hazards/Warnings: As the by all permit conditions
Track Network

Submitted and/or Recommended By	License No.	Date
Gail Daugl	1782	9-1-00

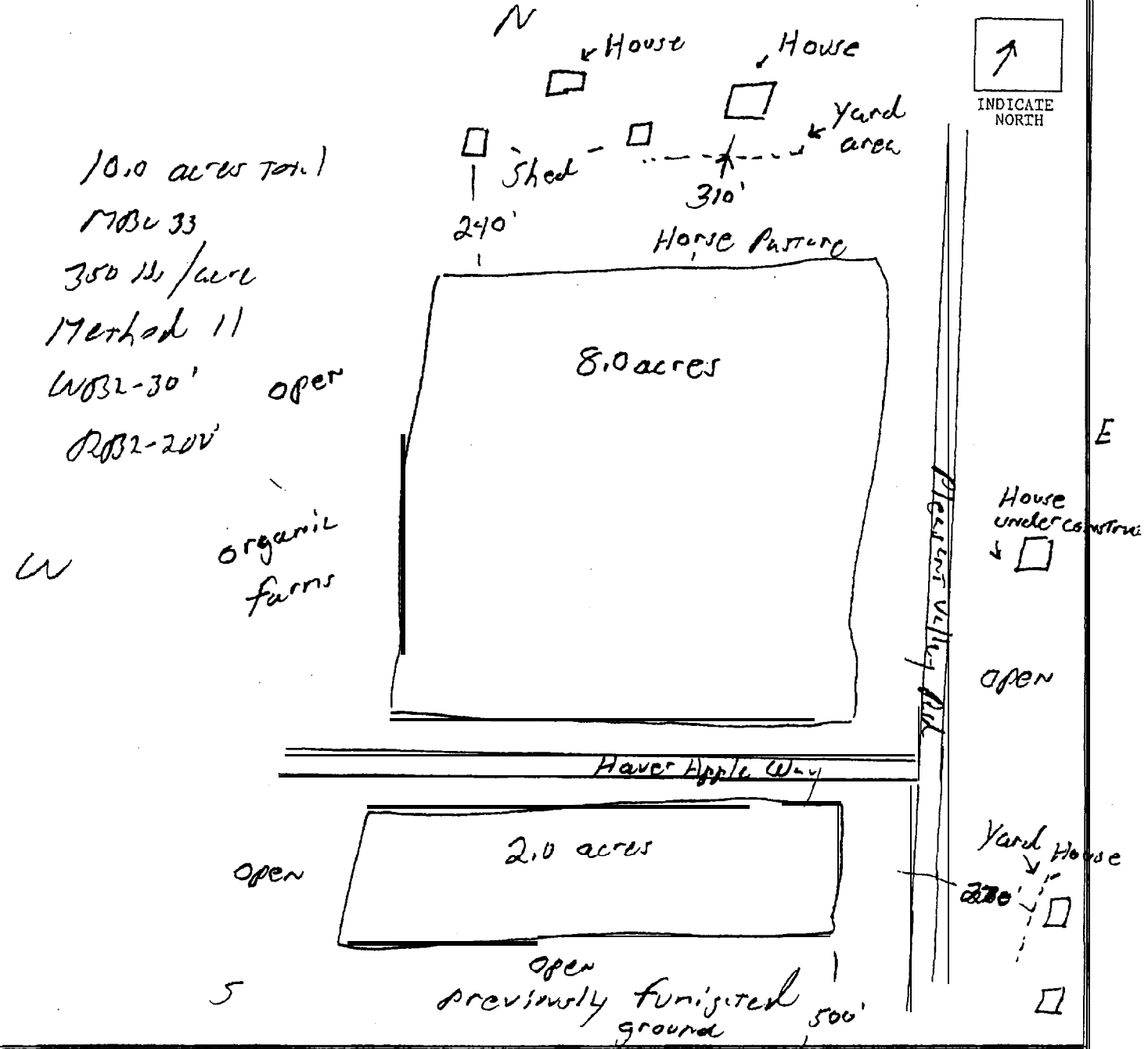
File Date: _____ Time: _____
Agricultural Commissioner: _____ Date: 9/1/00
NOI Approved ☒ Denied ☐

** DO NOT FEED PLANT RESIDUES, FORAGE OR STRAW TO LIVESTOCK
PLEASE SEE THE CONDITIONS ON THE REVERSE SIDE
COUNTY

Mapped

TRICAL, INC. - MAP FORM

PERMIT #: 44-01-4426OA	GROWER: Saccia Vineyard
SITE: 1A	LOCATION: Haver Apple Way
MATERIAL: MBC 33	APPLICATION METHOD: 11



COMMENTS: 6:00 AM start

SUBMITTED BY: Mark McLaughlin	DATE: 9-1-22	TIME: 8:00 AM

Methyl Bromide Field Fumigation - Worksite Plan Scenario

Property Operator: **Saveria Vineyard**
Address:
Phone:
Permit Number:
Contact Person
Fumigation Site Location
Pest Control Business: **Trical**
Address
Phone
Contact Person

Buffer Zone

Methyl Bromide Product: **MBC 33**
Application Rate: **350 lbs/ac**
Number of Acres: **8** + 2 **acres**
Application Method: **6450.3(a)(5)(B)(1); tarp/deep/broadcast**
Type of Tarpaulin: **Armin HBA**
Earliest Date of Fumigation: **8/15/00**
Latest Date of Fumigation: **9/15/00**
Description of Activities Within Buffer Zones: **Handling activities, horse feeding**
Map showing field location, field dimensions, housing, sensitive sites: See **attached**

Notification to Nearby Properties

Method of Notification: **Flyer**
Copy of Notification: See **attached**
Date(s) of Notification: **7/15/00**
Map showing properties notified: **See attached**

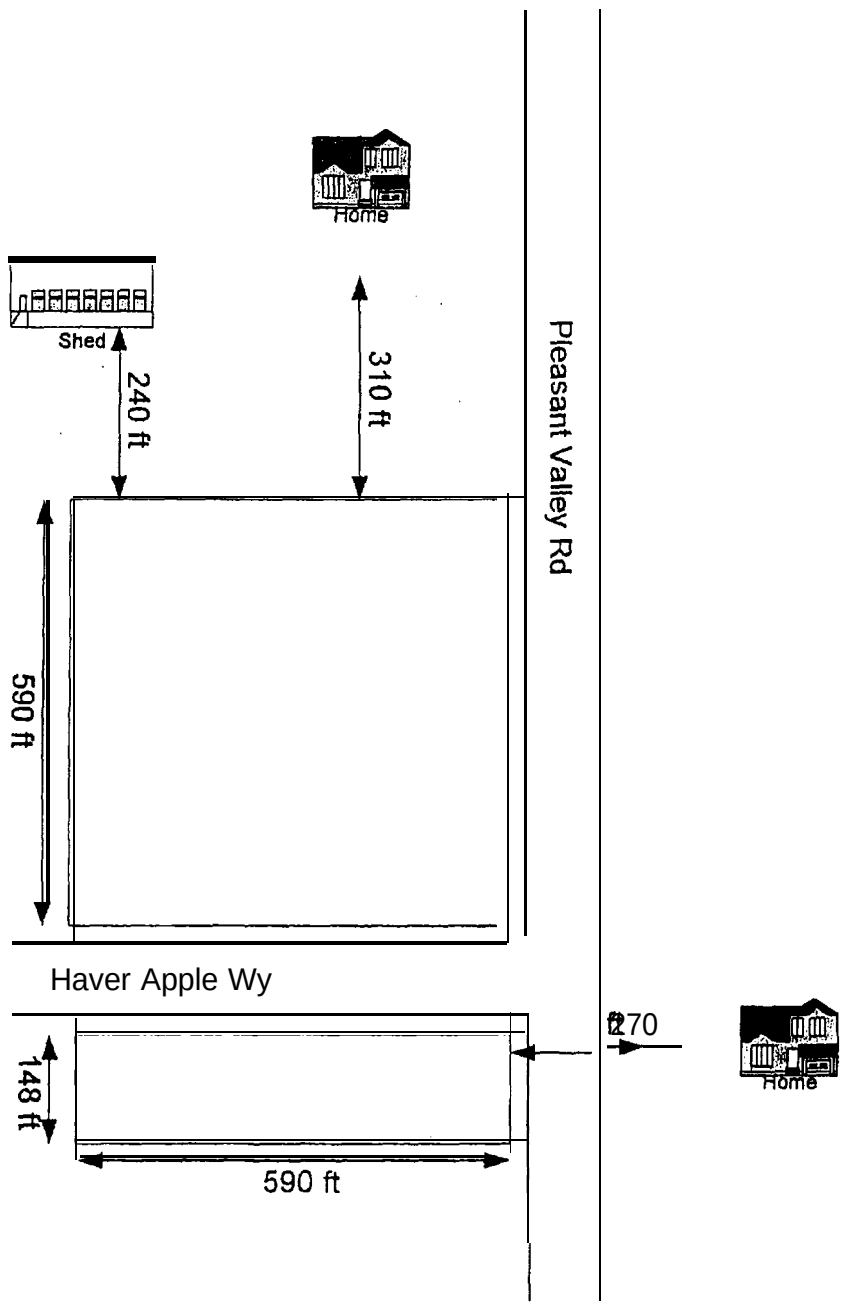
Tarpaulin Repair Plan

Person Responsible: **Paul Helliker, Saveria Vineyard**
Certification: **Private applicator, #0001**
Schedule for Checking Tarpaulins: 8:00 **AM, 5:00 PM**
Minimum Distance(s) From Sensitive Sites That Tarpaulins Will Be Repaired: 300 **ft**
Minimum Time Following Injection That Tarpaulin Will Be Repaired: 4 **days**
Minimum Size of Damage That Will Be Repaired: 6 **inches**
Other Factors Used to Decide If Tarpaulins Repaired
Type of Testing Device Used To Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **MSA SCBA**

Tarpaulin Removal Plan

Person Responsible: **Paul Helliker, Saveria Vineyard**
Equipment Used to Cut Tarpaulins: **ATV**
Schedule for Tarpaulin Cutting: **6 days after fumigation**
Schedule for Tarpaulin Removal: **7 days after fumigation**

Saveria Vineyard



Saveria Vineyard Buffer Zone Calculations

Methyl Bromide Product: **MBC 33**
Application Rate: 350 **lbs/ac**
Number of Acres: **10**
Application Method: **6450.3(a)(5)(B)(1); tarp/deep/broadcast**

Saveria Vineyard First Calculation

Isolated/Non-Isolated Block = **Non-Isolated,** 100 ft between blocks, same day
Application Rate = 350 lbs/ac X 0.67 percent = **234.5 lbs/ac**
Emission Rate = 350 lbs/ac X 0.67 percent X 0.40 emission ratio = **93.8 Ibs/ac-day**
Acreage = 8 ac + 2 ac = **10 ac**
Outer Buffer Zone = Table 2, 95 lbs/ac-day, 10 ac = 540 **ft**
Inner Buffer Zone = Table 4, 100 lbs/ac-day, 10 ac = 160 **ft**
Buffer Duration = Table 5B, 250 lbs/ac, 10 ac = 36 **hrs**

Saveria Vineyard Second Calculation - Reduce Acreage

Assume 8 ac field is 590 ft by 590 ft; 2 ac field is 148 ft X 590 ft

Block 1 - Day 1

Available Outer Buffer Zone = 240 **ft**
Max Acreage = Table 2, 95 lbs/ac-day, 210 ft = 2 **ac**
2 ac Block = 2 X 43560/590 = 148 **ft by 590 ft**
Inner Buffer Zone = Table 4, 100 lbs/ac-day, 2 ac = 60 **ft**
Buffer Duration = Table 5B, 250 lbs/ac, 2 ac = 36 **hrs**

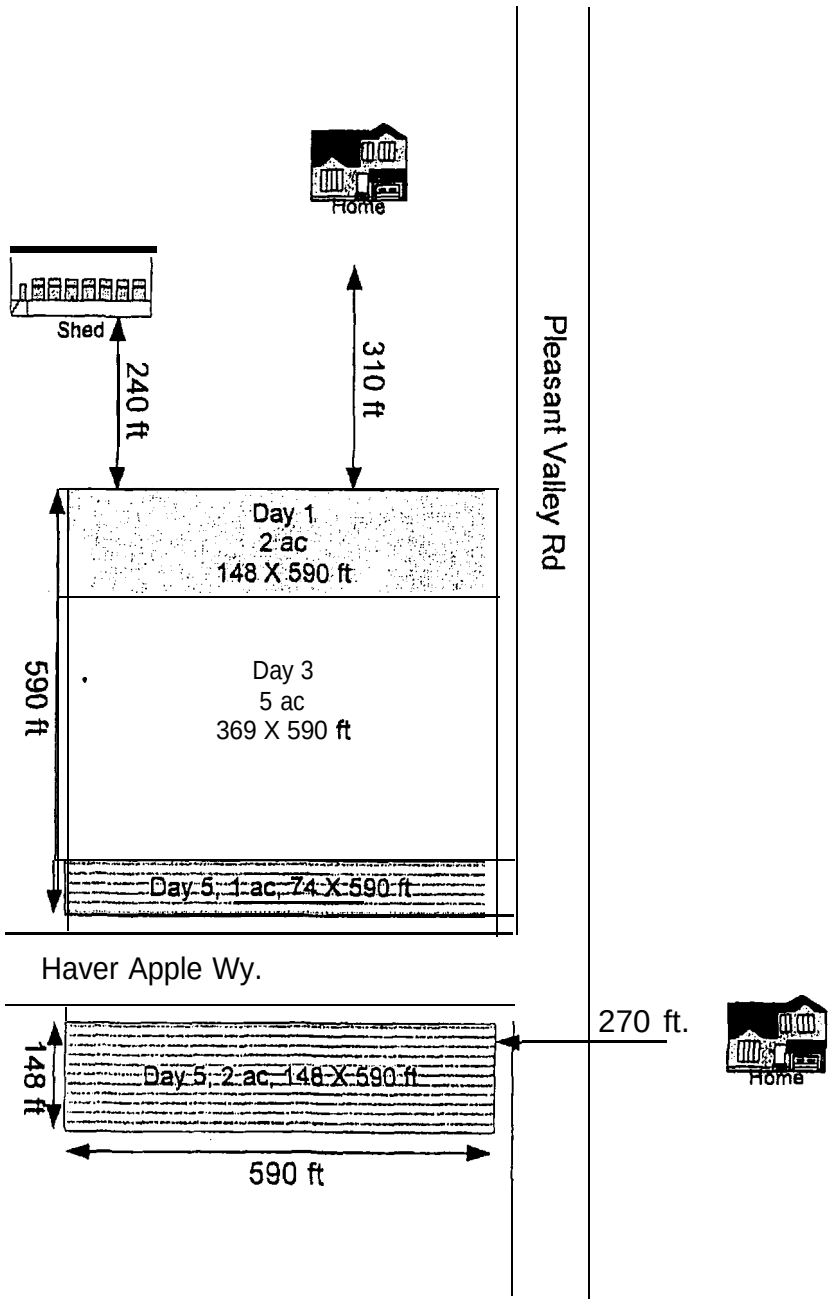
Block 2 - Day 3

Available Outer Buffer Zone = 240 + 148 = 388 **ft**
Table 2, 95 lbs/ac-day, 370 ft = 5 **ac**
5 ac block = 5 X 43560/590 = 369 **ft by 590 ft**
Inner Buffer Zone = Table 4, 100 lbs/ac-day, 5 ac = **110 ft**
Buffer Duration = Table 5B, 250 lbs/ac, 5 ac = 36 **hrs**

Block 3 - Day 5

Available Outer Buffer Zone = 270 **ft**
Table 2, 95 lbs/ac-day, 270 ft = 3 **ac**
Inner Buffer Zone = Table 4, 100 lbs/ac-day, 3 ac = 80 **ft**
Buffer Duration = Table 5B, 250 lbs/ac, 3 ac = 36 **hrs**

Saveria Vineyard - New Buffer Zones



Methyl Bromide Field Fumigation

V & L Farms Scenario

RESTRICTED MATERIALS, RECOMMENDATION AND FIELD WORK ORDER

248147-0

907233 V & L FARMS INC
PER ID-27-00-27-S094A-R
ERM- V & L FARMS INC.
P.O. BOX 6310
SALINAS, CA 93912

SALINAS
P.O. BOX 657
SALINAS, CA 93902-

SCHOOL

OPEN GROUND

IAP-VL-01 00003-00
RANCH- 764 WILLIAMS RD.(1)
BLOCK-764 WILLIAMS RD LOT 14C

MJ#- 1479

COUNTY USE ONLY
MONTEREY COUNTY
1428 ABBOTT ST.
SALINAS

☐ APPROVED ☐ DENIED

X
AG COMMISSIONER DATE

12.60 AC OPEN GROUND

HOUSES
HIGH SCHOOL

FARMLAND
SITE-01014C
STRAWBERRIES

FIELD	SEC.	TWP	RANGE	TREATED ACRES	PLANTED ACRES
01014C	25	14S	03E	12.60	21.50

CROP AND PLANTINGS	SLS	WHS	CUST P.O. NO
OPEN GROUND PG	649	649	4832

FARMLAND
APARTMENTS

PEST CONTROL OPERATOR/LICENSE LIC.# 30352
WESTERN FRRM SERVICE (831)757-5391

METHOD
GROUND

PRODUCT DESCRIPTION	PEST CRITERIA CODE *	RATE/AC	TOTAL APPLIED	PRICE ($ DEC.)	QUANTITY (2 DEC.)	✓
FUMIGATION 1300100			12.60 AC			
METHYL BROMIDE 67/33 3[illegible] 7949910 0622-00013	NEMATODE D	350.90 LB	4410.00 LB	METHYL BROMIDE	L	N
RED GLUE 8964240	MISCELLANEO	0.00 GA	100.80 GA			N
HIGH BARRIER 1MLX 15x3467 8939180	MISCELLANEO	1.00 EA	12.60 EA			N

* CODES ON REVERSE SIDE

APPLICATOR INFORMATION

APPL. DATE	6/18
VOL/AC	6/16
ROWSET/ SPACING	
HAZARD LEVEL	

COMPLETION DATE: TIME:

DRIVER	RIG	HOURS

TYPE 5 APPLICATION — START AT FIRST LIGHT-SENSITIVE SITE — RBZ=300' WBZ=30'

WFSI WILL POST

☐ GROWER HAS CONSIDERED ALTERNATIVES AND MITIGATION MEASURES THAT WOULD SUBSTANTIALLY LESSEN ANY SIGNIFICANT IMPACT ON THE CROP OR ENVIRONMENT AND HAVE ADOPTED THOSE FOUND FEASIBLE.

602/MARTIN OCONNOR 01153 6/09/00

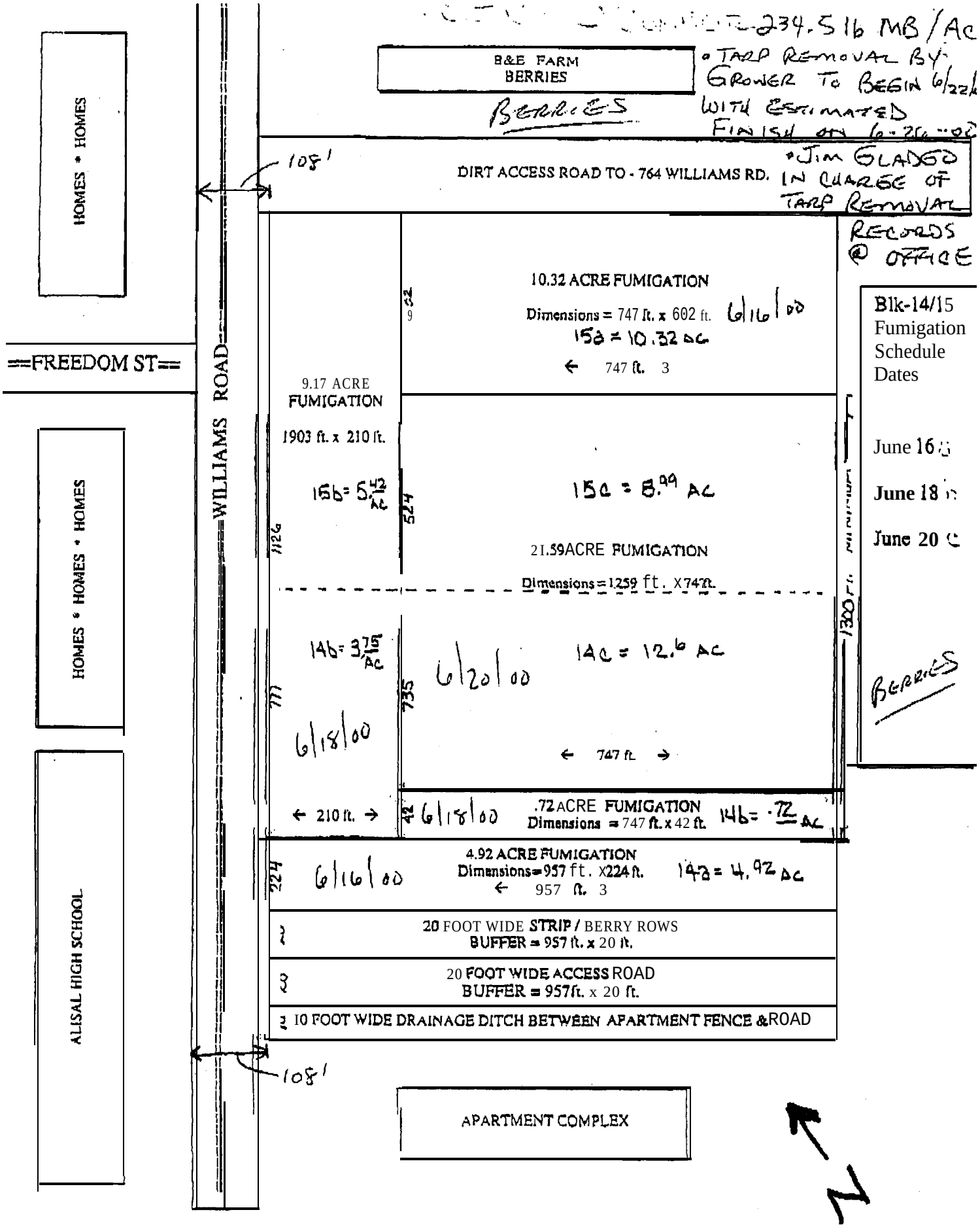
OFFICE COPY - 1

RESTRICTIONS					WORKER RE ENTRY HOURS	DAYS TO HARVEST	EARLY ENTRY PPE REQ	
PLANT BACK	FEED CROP WASTE	POST	INTERLINE	BEES				
YES	NO	YES	NO	YES	168	000	YES	YES

APPLICATOR: (SIGN HERE) DATE / /

AGENCY DATE / /

Sep 26 2000 14:57 P.02
MU CO AG COMMISSIONER Fax:831-758-1290


HOMES • HOMES
B&E FARM
BERRIES
BERRIES
234.516 MB/AC
• TARP REMOVAL BY GROWER TO BEGIN 6/22/
WITH ESTIMATED
FINISH ON 6-26-00
• JIM GLADEO IN CHARGE OF TARP REMOVAL
RECORDS @ OFFICE
105'
DIRT ACCESS ROAD TO - 764 WILLIAMS RD.
10.32 ACRE FUMIGATION
Dimensions = 747 ft. x 602 ft. 6/16/00
15a = 10.32 ac
← 747 ft. 3
602
9
==FREEDOM ST==
WILLIAMS ROAD
9.17 ACRE
FUMIGATION
1903 ft. x 210 ft.
15b = 5.42 AC
1126
524
15c = 8.99 AC
21.59ACRE FUMIGATION
Dimensions = 1259 ft. X 747ft.
1300 ft.
Blk-14/15
Fumigation
Schedule
Dates
June 16
June 18
June 20
14b = 3.75 AC
6/18/00
777
735
6/20/00
14c = 12.6 AC
BERRIES
← 747 ft. →
HOMES • HOMES • HOMES
← 210 ft. →
42
6/18/00
.72ACRE FUMIGATION
Dimensions = 747 ft. x 42 ft.
14b = .72 AC
224
6/16/00
4.92 ACRE FUMIGATION
Dimensions = 957 ft. X224 ft.
← 957 ft. 3
14a = 4.92 AC
20 FOOT WIDE STRIP / BERRY ROWS
BUFFER = 957 ft. x 20 ft.
20 FOOT WIDE ACCESS ROAD
BUFFER = 957ft. x 20 ft.
10 FOOT WIDE DRAINAGE DITCH BETWEEN APARTMENT FENCE &ROAD
ALISAL HIGH SCHOOL
108'
APARTMENT COMPLEX
N

Methyl Bromide Field Fumigation - Worksite Plan Scenario

Property Operator: **V & L Farms**
Address :
Phone:
Permit Number:
Contact Person
Fumigation Site Location
Pest Control Business: **Western Farm Service**
Address
Phone
Contact Person

Buffer Zone

Methyl Bromide Product: **Methyl Bromide 67/33**
Application Rate: 350 **lbs/ac**
Number of Acres: 46.7 **acres**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**
Type of Tarpaulin: **Armin HBA**
Earliest Date of Fumigation: **6/15/00**
Latest Date of Fumigation: **6/25/00**
Description of Activities Within Buffer Zones: **Handling activities, berry picking**
Map showing field location, field dimensions, housing, sensitive sites: **See attached**

Notification to Nearby Properties

Method of Notification: **Flyer**
Copy of Notification: **See attached**
Date(s) of Notification: **7/15/00**
Map showing properties notified: **See attached**

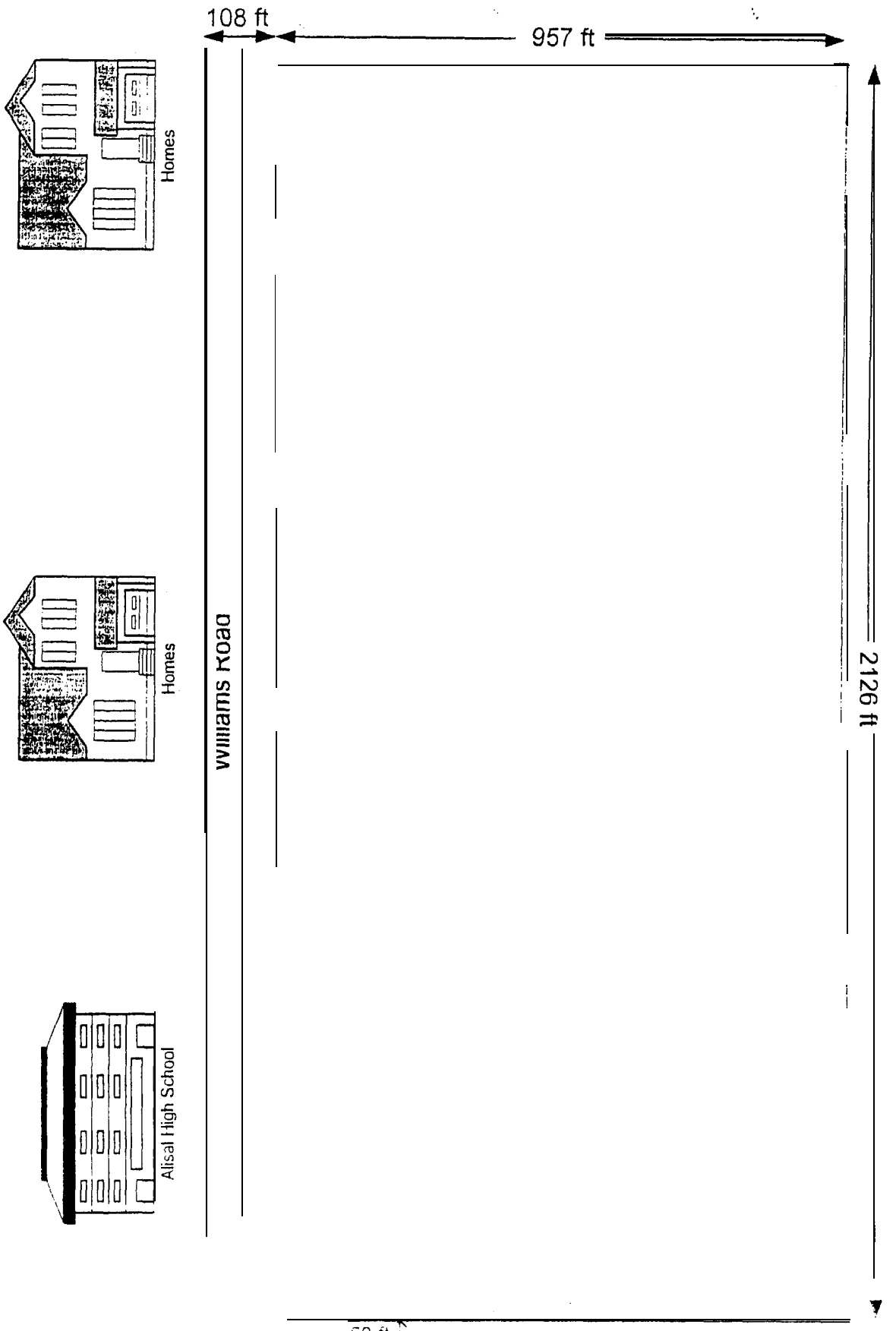
Tarpaulin Repair Plan

Person Responsible: **Bill Lyons, V & L Farms**
Certification: **private applicator, #0001**
Schedule for Checking Tarpaulins: 8:00 **AM, 5:00 PM**
Minimum Distance(s) From Sensitive Sites That Tarpaulins Will Be Repaired: 300 **ft**
Minimum Time Following Injection That Tarpaulin Will Be Repaired: 4 **days**
Minimum Size of Damage That Will Be Repaired: 6 **inches**
Other Factors Used to Decide If Tarpaulins Repaired
Type of Testing Device Used To Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **MSA SCBA**

Tarpaulin Removal Plan

Person Responsible: **Bill Lyons, V & L Farms**
Equipment Used to Cut Tarpaulins: **ATV**
Schedule for Tarpaulin Cutting: **5 days after fumigation**
Schedule for Tarpaulin Removal: **6 days after fumigation**

V & L Farms


108 ft
957 ft
Homes
Homes
Williams Road
2126 ft
Alisal High School
50 ft
Apartments

V & L Farms New Buffer Zone Calculation

Methyl Bromide Product: **Methyl Bromide 67/33**
Application Rate: **350 lbs/ac**
Number of Acres: 46.7 **acres; 957 ft X 2126 ft**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**

Isolated/Non-Isolated Block **= Isolated**
Application Rate = 350 lbs/ac X 0.67 percent **= 234.5 lbs/ac**
Emission Rate = 350 lbs/ac X 0.67 percent X 0.25 emission ratio **= 58.6 lbs/ac-day**
Acreage = 46.7 **ac**

Block 1 - Day 1 - ALISAL SCHOOL IS WITHIN 300 FT OF OUTER BUFFER ZONE OF BLOCK 1. BLOCK 1 MUST BE COMPLETED 36 HRS PRIOR TO START OF SCHOOL. APARTMENTS ARE ADJACENT TO FIELD. LEAVE UNFUMIGATED AREA NEAR APARTMENTS.

Leave 10 ft unfumigated
Available Outer Buffer Zone = 60 **ft**
Max Acreage = Table 3, 60 A = 6 **ac**
6 ac Block = 273 **ft by 957 ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 6 ac = 30 **ft**
Buffer Duration = Table 5C, 250 lbs/ac, 6 ac = 36 **hrs**

Block 2 - Day 1 - CALCULATE LARGEST BLOCK THAT CAN BE FUMIGATED AND MAINTAIN 1300 FT SEPARATION FOR ISOLATED BLOCK

Available Outer Buffer Zone = **108 ft**
Max Width = 2126 - 1300 - 273 - 10 = 543 **ft**
Max Acreage = 543 X 957143560 = 12 **ac**
Outer Buffer Zone = Table 3, 10 ac = **100 ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 10 ac = 40 **ft**
Buffer Duration = Table 5C, 250 lbs/ac, 10 ac = 36 **hrs**
Fumigated Block = **10 ac, 455 ft by 957 ft**
Total Fumigated = 6 + 10 = 16 ac

Block 3 - Day 3

Available Outer Buffer Zone = **108 ft**
Max Acreage = Table 3, 100 ft = **10 ac**
10 ac Block = 455 **ft X 957 ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 10 ac = 40 **ft**
Buffer Duration = Table 5C, 250 lbs/ac, 10 ac = 36 **hrs**
Total Fumigated = 6 + 10 + 10 = 26 ac

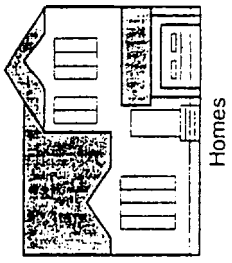
Block 4 - Day 8 - ALISAL SCHOOL IS WITHIN 300 FT OF OUTER BUFFER ZONE OF BLOCK 4. BLOCK 4MUST BE COMPLETED 36 HRS PRIOR TO START OF SCHOOL.

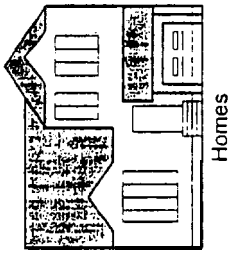
Available Outer Buffer Zone = 108 **ft**
Max Acreage = Table 3, 100 ft = 10 ac
10 ac Block Length = 2126 - 273 - 455 - 455 - 10 = 933 **ft**
10 ac Block Width = 10 X 43560/933 = 466 **ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 14 ac = 40 **ft**
Buffer Duration = Table 5C, 250 lbs/ac, 14 ac = 36 **hrs**
Total Fumigated = 6 + 10 + 10 + 10 = **36 ac**

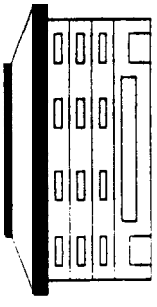
Block 5 - Day 5 - CALCULATE LARGEST BLOCK THAT MAINTAINS AVAILABLE BUFFER PLUS 300 FT FROM SCHOOL.

Available Outer Buffer Zone = 108 + 466 - 300 = 274 **ft**
Max Acreage = Table 2, 60 lbs/ac-day, 270 ft = 12 **ac**
Remaining Acreage = 46.5 - 6- 10 - 10 - 10 = 10.5 **ac**
10.5 ac Block Length = 2 126 - 273 - 455 - 455 - 10 = 933 **ft**
10.5 ac Width = 10.5 X 43560/933 = 490 **ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 11 ac = 40 **ft**
Buffer Duration = Table 5C, 250 lbs/ac, 11 ac = 36 **hrs**

V & L Farms - New Buffer Zone Calculation







108ft

957 ft

Williams Road

Saturday
Block 2 - Day 1
10 ac
455 x 957 ft

Block 3 - Day 3
10 ac
455 x 957 ft

Block 4 - Day 4
10 ac
466 x 963 ft

Block 5 - Day 5
10 ac
490 x 933 ft

2126 ft

Saturday
Block 1 - Day 1
6 ac
273 X 957 it
plus 10 ft unfumigated

50 ft

Apartments

Methyl Bromide Field Fumigation

Del Rose Nursery Scenario

Specializing in Soil Fumigation

P.O. BOX 1327
HOLLISTER, CA 95024

TRI CAL

1029 RAILROAD STREET
CORONA, CA 91720

INVOICE NUMBER

NOTICE OF INTENT TO APPLY RESTRICTED MATERIALS AND/OR PEST CONTROL RECOMMENDATION

WORK ORDER NO.

County Sutter
Address
County No. 51
Permittee: Del Rose Nursery
Address:
Environmental Changes:

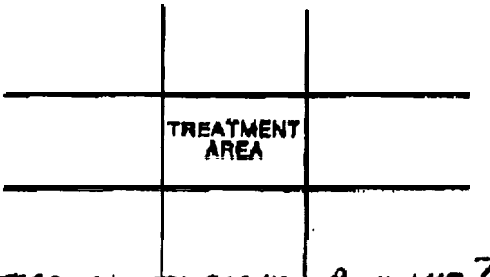
Permit No. 98-51100 S-5-5
Date of Application 10/19/00 Thur.
Crop Rose

Sec.	Twn.	Rng.	Map ID
21	16N	3E	(Base)

Location to be treated: I-5
E/Broadway .25m N Hwy 99
Pests: (Weed seeds, Nematodes, Soil-fungus)
No. of days before planting: 14
Method: Ground application
[redacted] TARP

I CERTIFY THAT I HAVE CONSIDERED ALTERNATIVES AND MITIGATION MEASURES THAT WOULD SUBSTANTIALLY LESSEN ANY SIGNIFICANT IMPACT ON THE ENVIRONMENT, AND HAVE ADOPTED THOSE FOUND FEASIBLE.

(✓)	Fumigant To Be Used		lbs/acre	acres
(✓)	Tri-Form	11220-16	200	2
( )	Tri-Cal 80/20	58266-01-11220		
( )	Tri-Cal 75/25	11220-00		
( )	Tri-Con 67/33	11220-07		
( )	Tri-Con 57/43	11220-04		
( )	M.B. 98.5%	8836-13-11220		
( )	M.B. 98%	8836-10-11220		
( )	Other			



Days before harvest: N/A
Worker Re-entry: N/A WHITE [redacted] 5 Days - cut TARP - WHITE 24 Hrs Remove Tarp
Posting Req. ☒ Yes ☐ No
Reason(s) for Recommendation: For the prevention of suspected nematode pathogens in the soil.

Hazards/Warnings: Follow County Permit Conditions

Submitted and/or Recommended By GARY STORKAN License No. 7514 Date 10/17/00 FX

File Date: Time:
Agricultural Commissioner:

Date:
NOI Approved ☐ Denied ☐

** DO NOT FEED PLANT RESIDUES, FORAGE OR STRAW TO LIVESTOCK
PLEASE SEE THE CONDITIONS ON THE REVERSE SIDE

37649

COUNTY

TRI CAL INC.

DATE: 10/23/0

ARY STORKAN
TRUCK & MSGS:
755-8243

FAX
846-5271
BUTTE.....538-7594
SUTTER.....822-7511
YUBA.....743-4442
TEHEMA.....529-1049
YOLO.....662-6094
COLUSA.....458-0580
PLACER.....823-1698

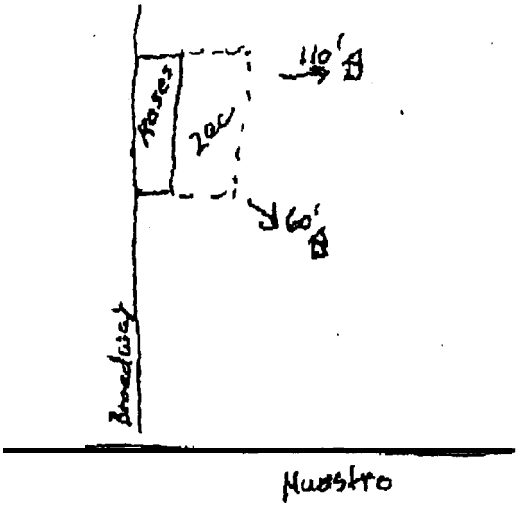
Work Plan ✓
NOI ✓

GROWER: Del Rose Nursery

PERMIT NO: 99-5100535

PHONE NO: 673 6280

↑N



WORK PLAN

Field No.	Commodity	Application Rate (Lbs./Acre)	Method No.	Emission Rate	Emission Rate
1-3	Rose	200	# 5 Tarp	—	—

Field No.	Application Block Acreage	Emission Rate	Residence Buffer Zone	Emission Rate/2	Worker Buffer Zone
1-3	2	—	50'	—	30'

Methyl Bromide Field Fumigation - Worksite Plan Scenario

Property Operator: **Del Rose Nursery**
Address:
Phone:
Permit Number:
Contact Person
Fumigation Site Location
Pest Control Business: **Trical**
Address
Phone
Contact Person

Buffer Zone

Methyl Bromide Product: **Tri-Brom**
Application Rate: 200 **lbs/ac**
Number of Acres: 2 **acres**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**
Type of Tarpaulin: **Armin HBA**
Earliest Date of Fumigation: **10/17/00**
Latest Date of Fumigation: 1**0/31/00**
Description of Activities Within Buffer Zones: **Handling activities**
Map showing field location, field dimensions, housing, sensitive sites: **See attached**

Notification to Nearby Properties

Method of Notification: **Flyer**
Copy of Notification: **See attached**
Date(s) of Notification: **10/8/00**
Map showing properties notified: **See attached**

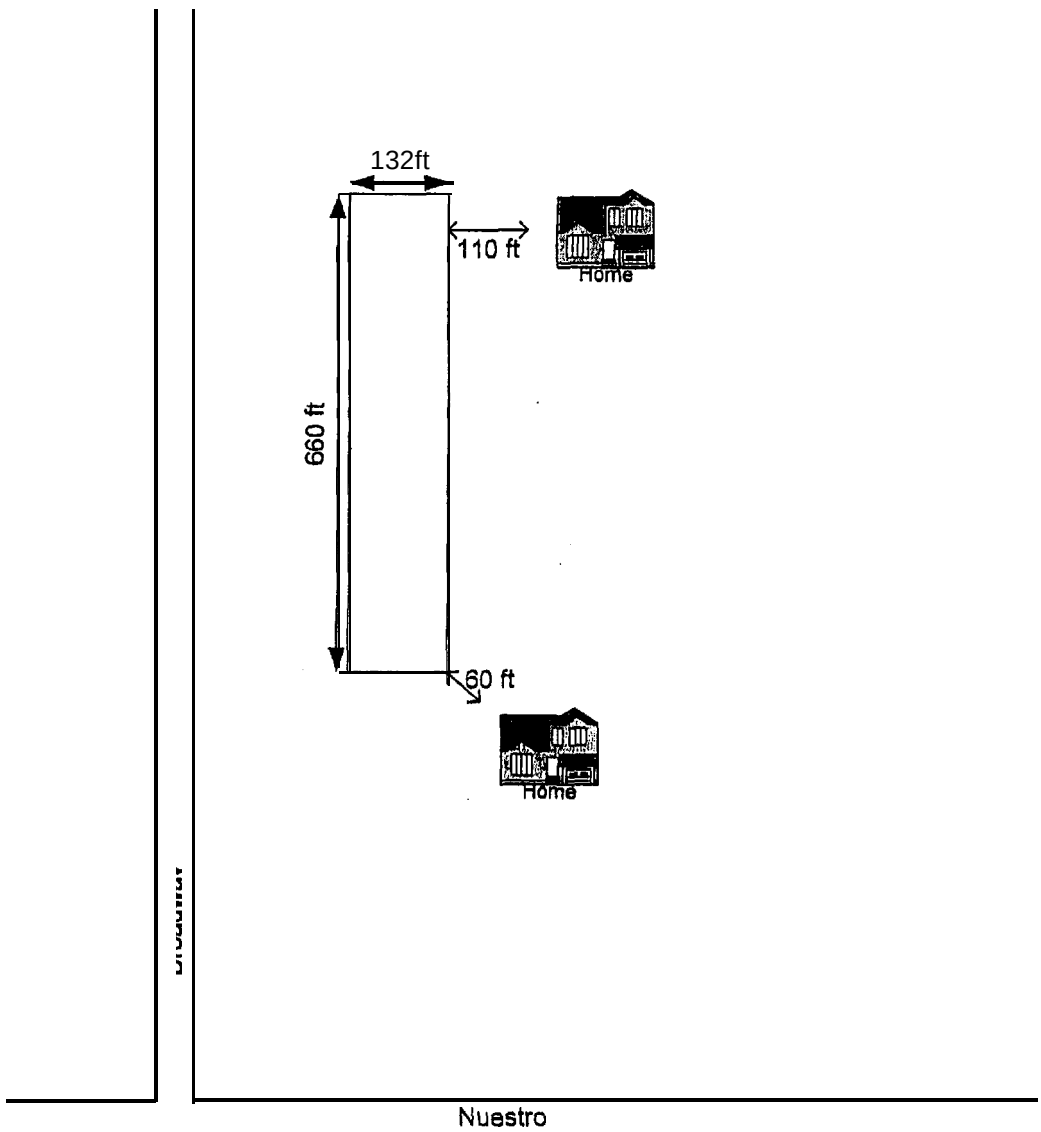
Tarpaulin Repair Plan

Person Responsible: **Gray Davis, Del Rose Nursery**
Certification: **Private applicator, #0001**
Schedule for Checking Tarpaulins: 8:00 **AM, 5:00 PM**
Minimum Distance(s) From Sensitive Sites That Tarpaulins Will Be Repaired: **100 ft**
Minimum Time Following Injection That Tarpaulin Will Be Repaired: 4 **days**
Minimum Size of Damage That Will Be Repaired: 6 **inches**
Other Factors Used to Decide If Tarpaulins Repaired
Type of Testing Device Used To Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **MSA SCBA**

Tarpaulin Removal Plan

Person Responsible: **Gray Davis, Del Rose Nursery**
Equipment Used to Cut Tarpaulins: **ATV**
Schedule for Tarpaulin Cutting: **6 days after fumigation**
Schedule for Tarpaulin Removal: **7 days after fumigation**

Del Rose Nursery



Del Rose Nursery Buffer Zone Calculations

Methyl Bromide Product: **Tri-Brom**
Application Rate: **200 lbs/ac**
Number of Acres: 2
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**

Del Rose Nursery Calculation

Isolated/Non-Isolated Block **= Isolated**
Application Rate = 200 lbs/ac X 0.995 percent **= 199 lbs/ac**
Emission Rate = 200 lbs/ac X 0.995 percent X 0.25 emission ratio **= 49.75 lbs/ac-day**
Acreage = 2 **ac**
Outer Buffer Zone = Table 3, inland county, 2 ac = 60 **ft**
Inner Buffer Zone = Table 4, 60 lbs/ac-day, 2 ac = 50 **ft**
Buffer Duration = Table 5C, 200 lbs/ac, 2 ac = 36 **hrs**

Methyl Bromide Field Fumigation

Bear Creek Scenario

STATE OF CALIFORNIA
DEPARTMENT OF PESTICIDE REGULATION

NOTICE OF INTENT TO APPLY RESTRICTED MATERIALS

1007752

NURSERY

COUNTY NO.	SECTION	TOWNSHIP	RANGE	BASE & MERIDIAN	APP. METHOD	PERMITTEE/PROPERTY OPERATOR	APPLICATOR NAME AND ADDRESS
15	30	27	25		OTHER	Jackson & Perkins	Tri Cal Inc P.O. Box 1327 Hollister, Ca

OPERATOR ID/PERMIT NUMBER	SITE IDENTIFICATION NUMBER	TOTAL PLANTED ACRES/UNITS
15-00-1500051	206 N	27.43

LOCATION: Field 206N Kimberlina 1½ mi E of Hwy 43

BLOCK ID (IF APPLICABLE):

DATE/TIME APPLIED PROPOSED	ACTUAL	TOTAL ACRES/UNITS TREATED PROPOSED	ACTUAL	COMMODITY/SITE TREATED
7-3	[redacted]	27.43	[redacted]	Rose Nursery

	MANUFACTURER/BRAND NAME OF PRODUCT APPLIED	EPA/CALIF. REGISTRATION NUMBER FROM LABEL		RATE	DILUTION	TARGET PEST
50	BLC MB 44.5	18536 72-11220	[redacted]	350#	None	Nematode

DAYS NEEDED: 6 Days
DAYS PREHARVEST: 25. N/A
APPLICATION PERFORMED BY: 26. Clark Elgin

ENVIRONMENTAL CONSIDERATIONS/COMMENTS: Method 4 No Houses involved 660 ft Buffer required

SUBMITTED BY: Clark Elgin
DATE: 6-26
TIME: 1205pm
BOX NAME: Jess Quadian
RECEIVED BY: D.B.
BOX NUMBER / DATE: 6/26/2000
☐ APPROVED
☐ DENIED

TREATMENT AREA — N, E, S

ADJACENT CROPS, SCHOOLS, DWELLINGS, ETC.

(1) CAC — Submit to AGRICULTURAL COMMISSIONER within 7 days of application. PR-ENF-125X (REV. 2/00)

CROP MAP - 2000

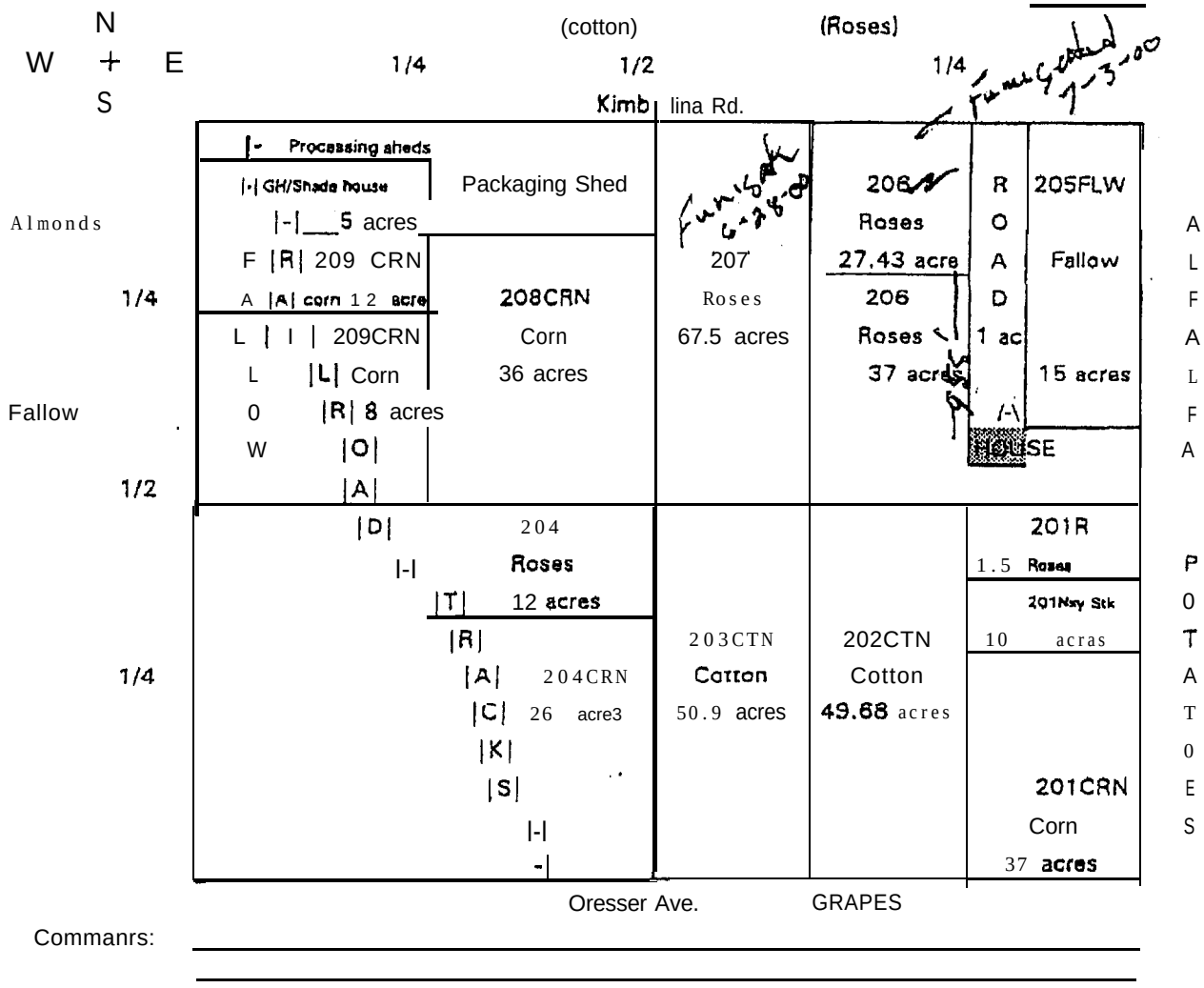
Grower Name: Bear Creek Production Co. Permit No.: 15-00-I 500051

Address: P. 0. Box 280, Wasco, CA 93280 Phone: (661) 758-5186

Location: Sec 30 Twn 27S Rng 25E Crops: Corn, Roses, Cotton, Nsy Stk W

Map Number: 5 Field Nos.: See Below Sudan grass

Acres: 380.01



Commanrs:

FILENAME: MAPS-97.xls 23-Jun-00

From : Robert Wegis
Date: 5/12/00
Subject: Methyl Bromide Buffer Zones

The following alternative buffer zones were approved by the Department of Pesticide Regulations on 7/6/95 and have been approved to continue through 12/31/99.
These buffer zones assume that method 4 (tarp/shallow/broadcast with a Nobel plow) is used and the application rate is no more than 350 lb./acre,

acres	Resident Buffer (feet)	Worker Buffer (feet)	Res Buffer Duration (days)	Worker Buff Duration (days)	Time Separation (days)	Distance Separations (miles)
80 or less	1300	270	3	2	2	0.5
120 or less	2000	500	5	3	4	1
160 or less	2600	750	6	4	6	2

Watch the separation requirements carefully. With a number of fields being treated in a short time in the same area, some aggregating may be necessary if each field does not have the appropriate time or distance separations.

issued 6-23-00
g. Bressler

Methyl Bromide Field Fumigation - Worksite Plan Scenario

Property Operator: **Bear Creek Production**
Address:
Phone:
Permit Number:
Contact Person
Fumigation Site Location: **206N,** 207
Pest Control Business: **Trical**
Address
Phone
Contact Person

Buffer Zone

Methyl Bromide Product: **GLC MB 99.5**
Application Rate: **350 lbs/ac**
Number of Acres: 67.5 + 27.43 **acres**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**
Type of Tarpaulin: **EPA**
Earliest Date of Fumigation: **6/15/00**
Latest Date of Fumigation: **7/15/00**
Description of Activities Within Buffer Zones: **Handling activities, forklift driving**
Map showing field location, field dimensions, housing, sensitive sites: **See attached**

Notification to Nearby Properties

Method of Notification: **Flyer**
Copy of Notification: **See attached**
Date(s) of Notification: **6/5/00**
Map showing properties notified: **See attached**

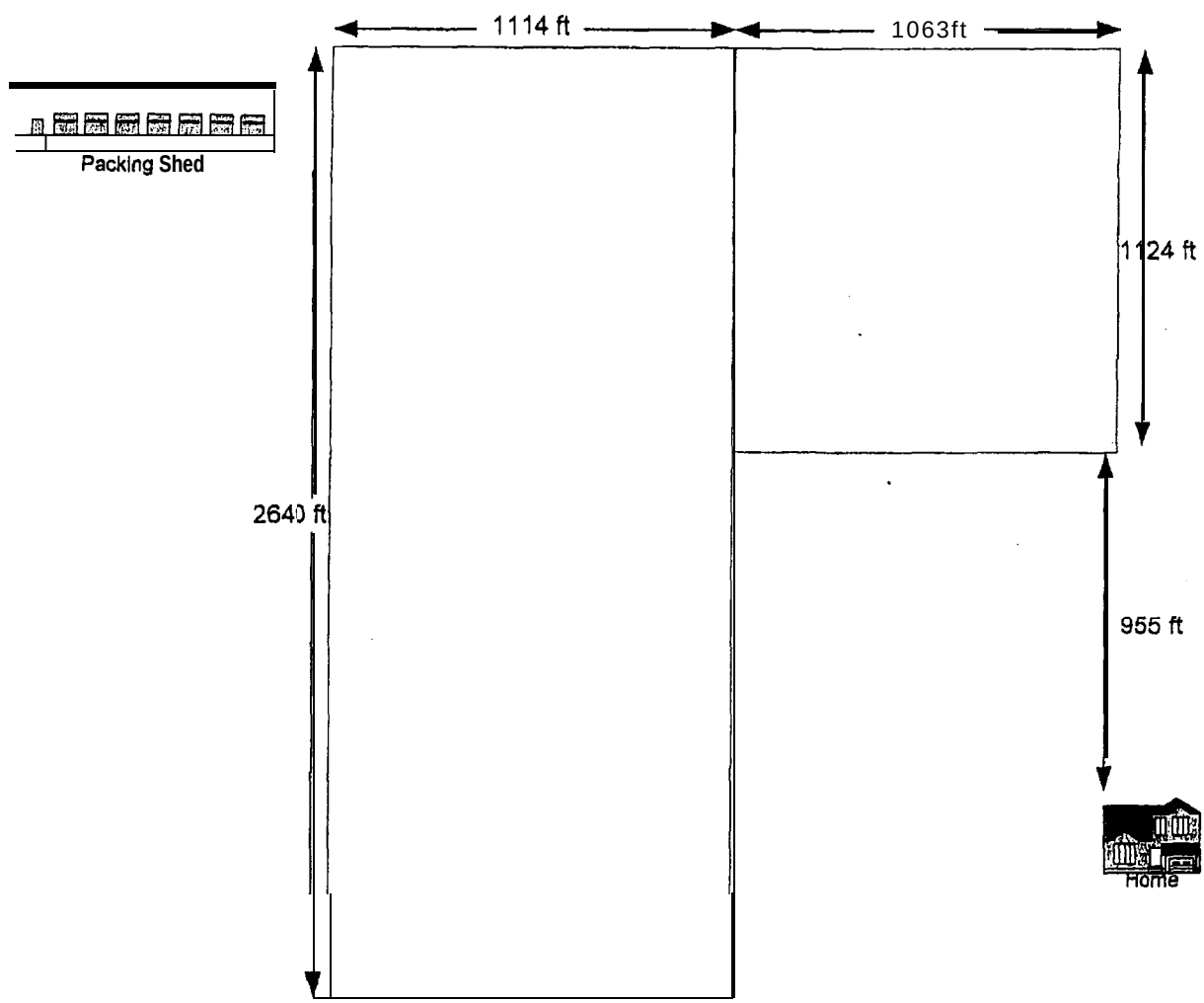
Tarpaulin Repair Plan

Person Responsible: **Winston Hickox, Bear Creek**
Certification: **Private applicator, #0001**
Schedule for Checking Tarpaulins: 8:00 **AM, 5:00 PM**
Minimum Distance(s) From Sensitive Sites That Tarpaulins Will Be Repaired: **100 ft**
Minimum Time Following Injection That Tarpaulin Will Be Repaired: 4 **days**
Minimum Size of Damage That Will Be Repaired: **6 inches**
Other Factors Used to Decide If Tarpaulins Repaired
Type of Testing Device Used To Measure Air Concentrations: **Drager**
Type of Respiratory Protection: **MSA SCBA**

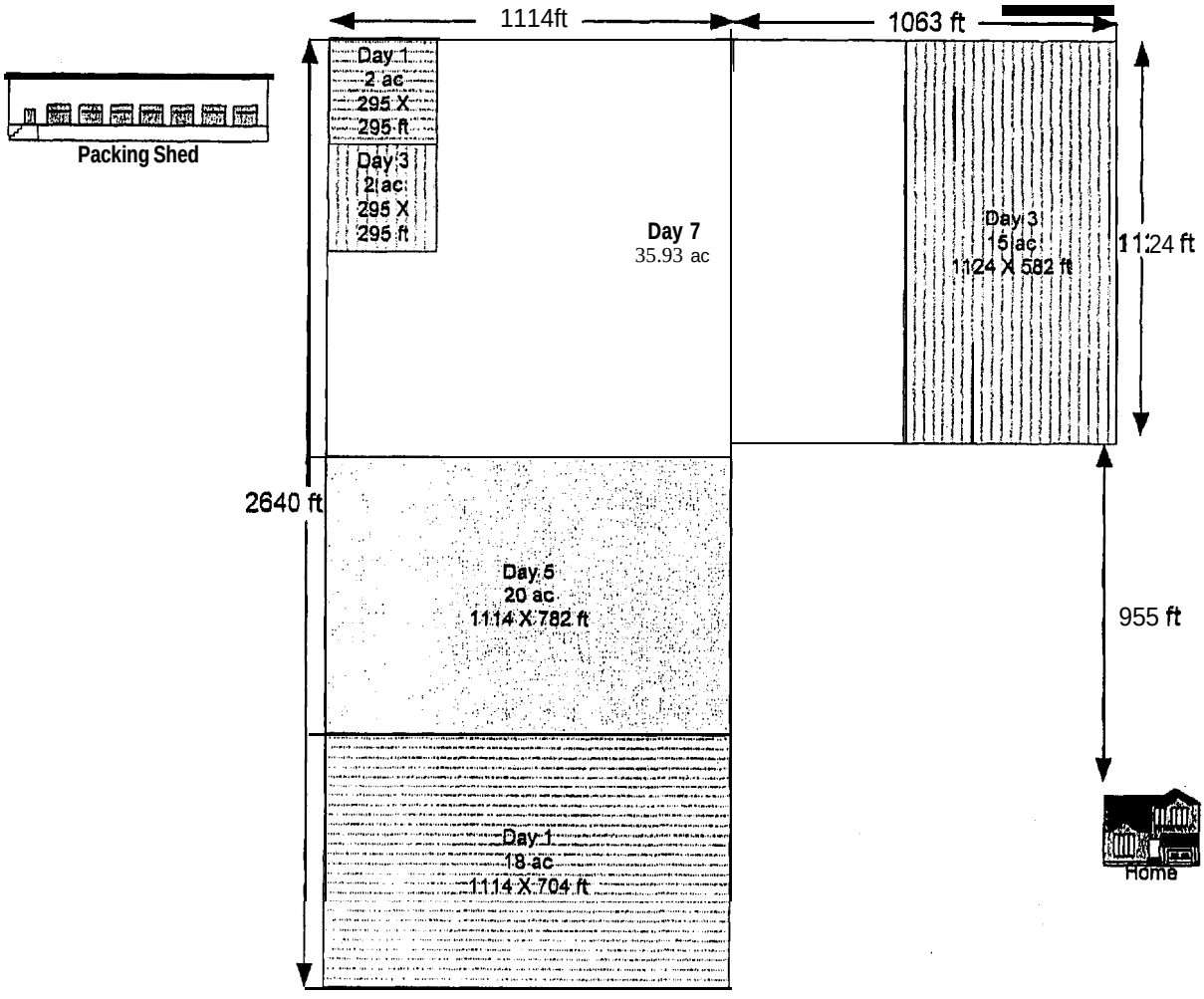
Tarpaulin Removal Plan

Person Responsible: **Winston Hickox, Bear Creek**
Equipment Used to Cut Tarpaulins: **ATV**
Schedule for Tarpaulin Cutting: **6 days after fumigation**
Schedule for Tarpaulin Removal: **7 days after fumigation**

Bear Creek



Bear Creek - New Buffer Zones



Bear Creek Buffer Zone Calculations - 1

Methyl Bromide Product: **GLC MB 99.5**
Application Rate: 350 **lbs/ac**
Number of Acres: 67.5 + 27.43 = 94.93 **acres**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**

Application Rate = 350 lbs/ac X 0.995 percent **= 348.25 lbs/ac**
Emission Rate = 350 lbs/ac X 0.995 percent X 0.25 emission ratio **= 87.1 lbs/ac-day**

Assume 67.5 ac field is 1114 by 2640 ft; 27.43 ac field is 1063 by 1124 ft

Block 1 - Day 1

Available Inner Buffer Zone = 50 **ft**
Max Acreage = Table 4, 90 lbs/ac-day, 50 ft = 2 **ac**
2 ac Block = square block = 295 **ft by 295 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 2 ac = **190 ft**
Buffer Duration = Table 5C, 350 lbs/ac, 2 ac = 36 **hrs**

Block 2 - Day 1 - isolated from Block 1 if separated by 1300 ft

Available Outer Buffer Zone = 1063 **ft**
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 1000 ft = 37 ac
Max Acreage to Maintain 1300 ft Separation
= (2640 - 1300-295 ft)(1114 ft)/43560
= 26.7 **ac**
26 ac block **= 26 X** 43560/1114 **= 1017 ft by 1114 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 26 ac = 860 **ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 26 ac = 220 **ft**
Buffer Duration = Table 5C, 350 lbs/ac, 26 ac = 60 **hrs**

Block 3 - Day 3

Available Inner Buffer Zone = 50 **ft**
Max Acreage = Table 4, 90 lbs/ac-day, 50 ft = 2 **ac**
2 ac Block = square block = 295 **ft by 295 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 2 ac = **190 ft**
Buffer Duration = Table 5C, 350 lbs/ac, 2 ac = 36 **hrs**

Block 4 - Day 3 - isolated from Block 1 if separated by 1300 ft

Available Outer Buffer Zone = 955 **ft**
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 950 ft = 3 1 ac
Max Acreage to Maintain 1300 ft Separation
= (1114 + 1063 - 1300 - 295 ft)(1124 ft)/43560
= 15.0 ac
15 ac block = 15 X 43560/1 124 = 582 **ft by 1124 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 15 ac = 630 **ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 15 ac = 160 **ft**
Buffer Duration = Table 5C, 350 lbs/ac, 15 ac = 36 **hrs**

Block 5 - Day 5

Available Outer Buffer Zone
= $955^2 + 582^2$ = available buffer^2
= 1118 ft
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 1100 ft = 40 **ac**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 40 ac = 290 **ft**
Buffer Duration = Table 5C, 350 lbs/ac, 40 ac = 60 **hrs**

Bear Creek Buffer Zone Calculations - 2

Methyl Bromide Product: GLC **MB 99.5**
Application Rate: 350 **lbs/ac**
Number of Acres: 67.5 + 27.43 = 94.93 **acres**
Application Method: **6450.3(a)(3)(B)(1); tarp/shallow/broadcast**

Application Rate = 350 lbs/ac X 0.995 percent = **348.25 lbs/ac**
Emission Rate = 350 lbs/ac X 0.995 percent X 0.25 emission ratio = **87.1 lbs/ac-day**

Assume 67.5 ac field is 1114 by 2640 ft; 27.43 ac field is 1063 by 1124 ft

Block 1 - Day 1

Available Inner Buffer Zone = 50 **ft**
Max Acreage = Table 4, 90 lbs/ac-day, 50 ft = 2 **ac**
2 ac Block = square block = 295 **ft by 295 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 2 ac = **190 ft**
Buffer Duration = Table 5C, 350 lbs/ac, 2 ac = 36 **hrs**

Block 2 - Day 1 - isolated from Block 1 if separated by 1300 ft

Available Outer Buffer Zone = 1063 **ft**
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 1000 ft = 37 ac
Max Acreage to Maintain 1300 ft Separation
= (2640 - 1300 - 295 ft)(1114 ft)/43560
= 26.7 ac
Max Acreage to Minimize Buffer Duration = Table 5C, 350 lbs/ac, 36 hrs = 20 **ac**
20 ac block = 20 X 43560/1114 = **782 ft by 1114 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 20 ac = 740 **ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 20 ac = **190 ft**

Block 3 - Day 3

Available Inner Buffer Zone = 50 **ft**
Max Acreage = Table 4, 90 lbs/ac-day, 50 ft = 2 **ac**
2 ac Block = square block = 295 **ft by 295 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 2 ac = **190 ft**
Buffer Duration = Table 5C, 350 lbs/ac, 2 ac = 36 **hrs**

Block 4 - Day 3 - isolated from Block 1 if separated by 1300 ft

Available Outer Buffer Zone = 955 **ft**
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 950 ft = 31 ac
Max Acreage to Maintain 1300 ft Separation
= (1114 + 1063- 1300 - 295 ft)(1124 ft)/43560
= 15.0 ac
Max Acreage to Minimize Buffer Duration = Table 5C, 350 lbs/ac, 36 hrs = 20 ac
15 ac block = 15 X 43560/1124 = 582 **ft by 1124 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 15 ac = 630 **ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 15 ac = 160 **ft**

Block 5 - Day 5

Available Outer Buffer Zone = **1063+ ft**
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 1000 ft = 37 ac
Max Acreage to Minimize Buffer Duration = Table 5C, 350 lbs/ac, 36 hrs = 20 **ac**
20 ac block = 20 X 43560/1114 = **782 ft by 1114 ft**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 20 ac = 740 **ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 20 ac = 190 **ft**

Block 6 - Day 7

Available Outer Buffer Zone
= $955^2 + 582^2$ = available buffer^2
= 1118 ft
Max Acreage to Meet Buffer = Table 2, 90 lbs/ac-day, 1100 ft = 40 ac
Acreage Remaining = 35.93 **ac**
Outer Buffer Zone = Table 2, 90 lbs/ac-day, 36 ac = **1000 ft**
Inner Buffer Zone = Table 4, 90 lbs/ac-day, 36 ac = 270 **ft**
Buffer Duration = Table 5C, 350 lbs/ac, 36 ac = 60 **hrs**